12 1**R**5 05 ZU S



- ①Series name ②Single output 3 Output wattage
- (4) Input voltage ⑤Output voltage

MODEL		ZUS1R50505	ZUS1R50512	ZUS1R50515	ZUS1R51205	ZUS1R51212	ZUS1R51215	ZUS1R52405	ZUS1R52412	ZUS1R52415	ZUS1R54805	ZUS1R54812	ZUS1R54815
MAX OUTPUT WATTAGE[W]		1.50	1.56	1.50	1.50	1.56	1.50	1.50	1.56	1.50	1.50	1.56	1.50
DO CHITCHIT VOLTAGE[5	12	15	5	12	15	5	12	15	5	12	15
DC OUTPUT CURRENT[A]		0.30	0.13	0.10	0.30	0.13	0.10	0.30	0.13	0.10	0.30	0.13	0.10

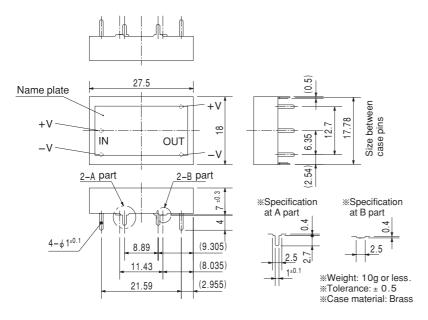
ZUS1R50505 ZUS1R50512 ZUS1R50515 ZUS1R51205 ZUS1R51205 ZUS1R51212 ZUS1R51215 ZUS1R52405 ZUS1R52412 ZUS1R52415 ZUS1R52415 ZUS1R54805 ZUS1R54812 ZUS1R54815

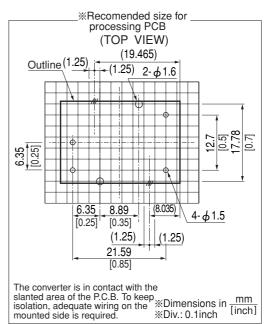
SPECIFICATIONS

MODEL

	VOLTAGE[V]	DC4.5 -	9		DC9 - 1	8		DC18 -	36		DC36 -	72		
INPUT	CURRENT[A] *1	0.441typ	0.459typ	0.441typ	0.176typ	0.183typ	0.176typ	0.088typ	0.092typ	0.088typ	0.043typ	0.045typ	0.043typ	
	EFFICIENCY[%] *1	68typ	68typ	68typ	71typ	71typ	71typ	71typ	71typ	71typ	73typ	73typ	73typ	
	VOLTAGE[V]	5	12	15	5	12	15	5	12	15	5	12	15	
	CURRENT[A]	0.30	0.13	0.10	0.30	0.13	0.10	0.30	0.13	0.10	0.30	0.13	0.10	
	LINE REGULATION[mV]	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	48max	60max	
	LOAD REGULATION[mV]	40max	100max	120max	40max	100max	120max	40max	100max	120max	40max	100max	120max	
•	RIPPLE[mVp-p] *2	80max	120max	120max	80max	120max	120max	80max	120max	120max	80max	120max	120max	
OUTPUT	RIPPLE NOISE[mVp-p] *2	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	150max	150max	
	TEMPERATURE REGULATION[mV] -20 to +55℃	50max	150max	180max	50max	150max	180max	50max	150max	180max	50max	150max	180max	
	DRIFT[mV] *3	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	48max	60max	
	START-UP TIME[ms]	20max (Minimum	input, lo	=100%)									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed												
	OUTPUT VOLTAGE SETTING[V]	4.85 - 5.25	11.40 - 12.60	14.25 - 15.75	4.85 - 5.25	11.40 - 12.60	14.25 - 15.75	4.85 - 5.25	11.40 - 12.60	14.25 - 15.75	4.85 - 5.25	11.40 - 12.60	14.25 - 15.75	
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works o	ver 105%	of rating	g and rec	covers au	tomatical	ly						
	INPUT-OUTPUT	AC500V	1minute	, Cutoff c	current =	10mA, D	C500V 5	$0M\Omega$ mir	າ (20±15	°C)				
ISOLATION	INPUT-CASE	AC500V	1minute	, Cutoff c	current =	10mA, D	C500V 5	$OM\Omega$ mir	n (20±15	°C)				
	OUTPUT-CASE	AC500V	1minute	, Cutoff c	current =	10mA, D	C500V 5	$0M\Omega$ mir	າ (20 <u>±</u> 15	§℃)				
	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +	71℃, 20	- 95%RH	l (Non co	ondensing	g) (Refer	to DERA	TING CU	RVE), 3,0	000m (10	,000feet)	max	
ENVIRONMENT	STORAGE TEMP.;HUMID.AND ALTITUDE	-40 to +	85℃, 20	- 95%RH	l (Non co	ondensing	g), 9,000r	n (30,000	Ofeet) ma	X				
LIVIIIONWLIVI	VIBRATION		ax (Minimum input, Io=100%) d 5.25 11.40 · 12.60 14.25 · 15.75 4.85 · 5.25 11.40 · 12.60 14.25 · 15.75 14.25 · 15.75 4.85 · 5.25 11.40 · 12.60 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.25 · 15.75 14.2											
	IMPACT	490.3m/	s² (50G),	11ms, o	nce each	X, Y an	d Z axis							
SAFETY	AGENCY APPROVALS	UL6095	0-1, EN6	0950-1, E	N50178	CSA C2	2.2 No.6	0950-1 C	omplies	with IEC6	60950-1			
OTHERS	CASE SIZE/WEIGHT	27.5×7	×18mm	(W×H×	D) / 10g	max								
	COOLING METHOD	Convect	ion											
deal Boroline	1 EV 40V 04V - 40V DO I - 4000													

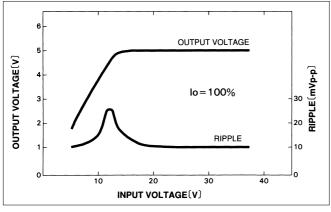
- *1 Rated input 5V, 12V, 24V or 48V DC lo=100%.*2 Measured by 20MHz oscilloscope.
- *3 The drift is a change at 25°C of ambient temperature and 30 minutes 8 hours after the input voltage applied at rated input/output.
- Series/Parallel operation with other model is not possible.



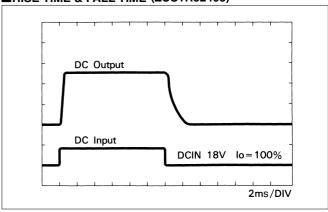


Performance data

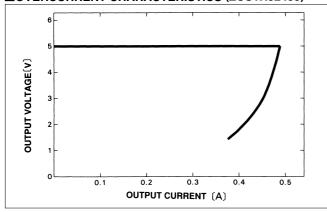
■STATIC CHARACTERISTICS (ZUS1R52405)



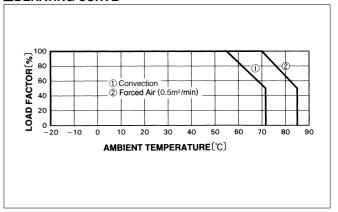




■OVERCURRENT CHARACTERISTICS (ZUS1R52405)



■DERATING CURVE





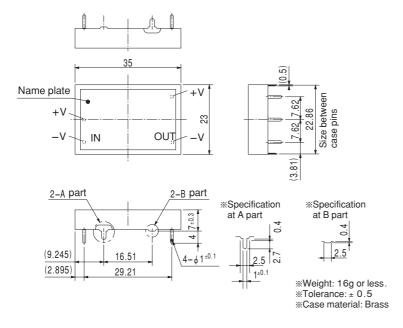
 Series name
②Single output
3 Output wattage
(4) Input voltage
⑤Output voltage

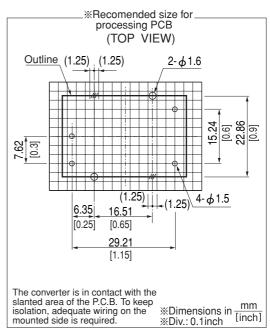
MODEL		ZUS30505	ZUS30512	ZUS30515	ZUS31205	ZUS31212	ZUS31215	ZUS32405	ZUS32412	ZUS32415	ZUS34805	ZUS34812	ZUS34815
MAX OUTPUT WATTAGE[W]		3	3	3	3	3	3	3	3	3	3	3	3
DC CLITPLIT VOLTAGE[5	12	15	5	12	15	5	12	15	5	12	15
DC OUTPUT CURRENT[A]		0.60	0.25	0.20	0.60	0.25	0.20	0.60	0.25	0.20	0.60	0.25	0.20

SPECIFICATIONS

	MODEL	ZUS30505	ZUS30512	ZUS30515	ZUS31205	ZUS31212	ZUS31215	ZUS32405	ZUS32412	ZUS32415	ZUS34805	ZUS34812	ZUS34815		
	VOLTAGE[V]	DC4.5 -	9		DC9 - 1	8		DC18 -	36		DC36 -	72			
INPUT	CURRENT[A] *1	0.896typ	0.857typ	0.857typ	0.357typ	0.338typ	0.338typ	0.176typ	0.167typ	0.167typ	0.088typ	0.082typ	0.082typ		
	EFFICIENCY[%] *1	67typ	70typ	70typ	70typ	74typ	74typ	71typ	75typ	75typ	71typ	76typ	76typ		
	VOLTAGE[V]	5	12	15	5	12	15	5	12	15	5	12	15		
	CURRENT[A]	0.60	0.25	0.20	0.60	0.25	0.20	0.60	0.25	0.20	0.60	0.25	0.20		
	LINE REGULATION[mV]	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	48max	60max		
	LOAD REGULATION[mV]	40max	100max	120max	40max	100max	120max	40max	100max	120max	40max	100max	120max		
	RIPPLE[mVp-p] *2	80max	120max	120max	80max	120max	120max	80max	120max	120max	80max	120max	120max		
OUTPUT	RIPPLE NOISE[mVp-p] *2	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	150max	150max		
	TEMPERATURE REGULATION[mV] -20 to +55℃	50max	150max	180max	50max	150max	180max	50max	150max	180max	50max	150max	180max		
	DRIFT[mV] *3	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	48max	60max		
	START-UP TIME[ms]	20max (Minimum	input, lo	=100%)										
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed													
	OUTPUT VOLTAGE SETTING[V]	4.85 - 5.25	11.40 - 12.60	14.25 - 15.75	4.85 - 5.25	11.40 - 12.60	14.25 - 15.75	4.85 - 5.25	11.40 - 12.60	14.25 - 15.75	4.85 - 5.25	11.40 - 12.60	14.25 - 15.75		
PROTECTION	OVERCURRENT PROTECTION	Works o	ver 105%	6 of rating	g and rec	overs au	tomatical	ly							
	INPUT-OUTPUT	AC500V	1minute	, Cutoff c	current =	10mA, D	C500V 5	$OM\Omega$ mir	n (20±15	5℃)					
ISOLATION	INPUT-CASE	AC500V	1minute	, Cutoff c	current =	10mA, D	C500V 5	$OM\Omega$ mir	າ (20±15	5℃)					
	OUTPUT-CASE	AC500V	1minute	, Cutoff c	current =	10mA, D	C500V 5	OM_{Ω} mir	າ (20 <u>±</u> 15	<u>5</u> ℃)					
	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +	71℃, 20	- 95%RH	l (Non co	ndensing	g) (Refer	to DERA	TING CU	RVE), 3,0	000m (10	,000feet)	max		
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +	85℃, 20	- 95%RH	l (Non co	ndensing	g), 9,000r	n (30,000)feet) ma	Х					
ENVIRONWENT	VIBRATION	10 - 55H	Iz, 98.0n	n/s² (10G), 3minut	es perioc	l, 60minu	tes each	along X,	Y and Z	axis				
	IMPACT	490.3m/	-40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max 10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis 490.3m/s² (50G), 11ms, once each X, Y and Z axis												
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1													
OTHERS	CASE SIZE/WEIGHT	35×7×	23mm (V	VXHXD) / 16g m	ıax									
	COOLING METHOD	Convect	ion												

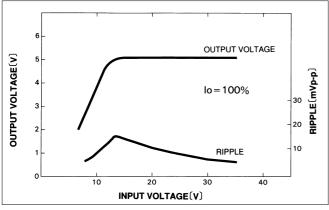
- *1 Rated input. 5V, 12V, 24V or 48V DC, Io=100%*2 Measured by 20MHz oscilloscope.
- *3 The drift is a change at 25°C of ambient temperature and 30 minutes 8 hours after the input voltage applied at rated input/output.
- Series/Parallel operation with other model is not possible.



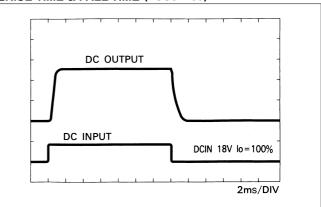


Performance data

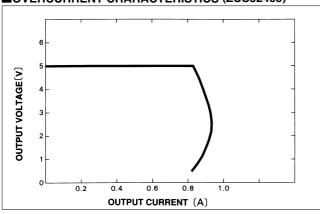
■STATIC CHARACTERISTICS (ZUS32405)



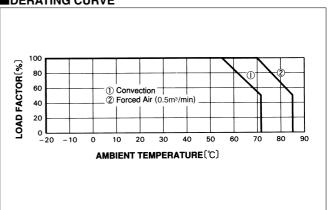




■OVERCURRENT CHARACTERISTICS (ZUS32405)



■DERATING CURVE



ZUS6

Ordering information

12 ZU 6



 Series name
②Single output
③Output wattag
× . ' •

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3 Output	wallage
(4) Input vo	oltage
⑤Output	voltage

MODEL		ZUS6053R3	ZUS60505	ZUS60512	ZUS60515	ZUS61205	ZUS61212	ZUS61215	ZUS62405	ZUS62412	ZUS62415	ZUS6483R3	ZUS64805	ZUS64812	ZUS64815
MAX OUTPUT WATTAGE[W]		3.3	5	6	6	6	6	6	6	6	6	3.96	6	6	6
DC OUTDUT	VOLTAGE[V]	3.3	5	12	15	5	12	15	5	12	15	3.3	5	12	15
DC OUTPUT	CURRENT[A]	1.0	1.0	0.5	0.4	1.2	0.5	0.4	1.2	0.5	0.4	1.2	1.2	0.5	0.4

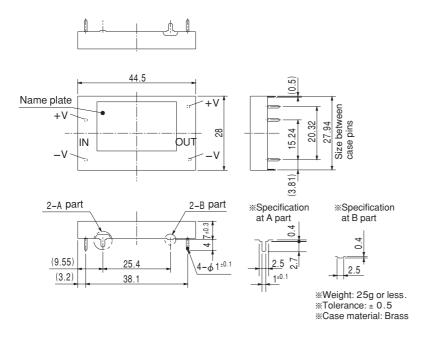
SPECIFICATIONS

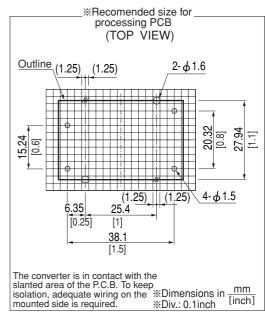
	MODEL	ZUS6053R3	ZUS60505	ZUS60512	ZUS60515	ZUS61205	ZUS61212	ZUS61215	ZUS62405	ZUS62412	ZUS62415	ZUS6483R3	ZUS64805	ZUS64812	ZUS64815
	VOLTAGE[V]	DC4.5	- 9			DC9 -	18		DC18	- 36		DC36 -	- 72		
INPUT	CURRENT[A] *1	0.94typ	1.41typ	1.63typ	1.63typ	0.69typ	0.65typ	0.65typ	0.35typ	0.33typ	0.33typ	0.09typ	0.18typ	0.17typ	0.17typ
	EFFICIENCY[%] *1	70typ	71typ	74typ	74typ	73typ	78typ	78typ	73typ	78typ	78typ	73typ	73typ	78typ	78typ
	VOLTAGE[V]	3.3	5	12	15	5	12	15	5	12	15	3.3	5	12	15
	CURRENT[A]	1.0	1.0	0.5	0.4	1.2	0.5	0.4	1.2	0.5	0.4	1.2	1.2	0.5	0.4
	LINE REGULATION[mV]	20max	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	20max	48max	60max
	LOAD REGULATION[mV]	40max	40max	100max	120max	40max	100max	120max	40max	100max	120max	40max	40max	100max	120max
	RIPPLE[mVp-p] *2	80max	80max	120max	120max	80max	120max	120max	80max	120max	120max	80max	80max	120max	120max
OUTPUT	RIPPLE NOISE[mVp-p] *2	120max	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	120max	150max	150max
	TEMPERATURE REGULATION[mV] -20 to +55℃	50max	50max	150max	180max	50max	150max	180max	50max	150max	180max	50max	50max	150max	180max
	DRIFT[mV] *3	20max	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]	20max	(Minim	um inpu	t, lo=10	0%)									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed													
	OUTPUT VOLTAGE SETTING[V]	3.20 - 3.47	3.47 4.85 - 5.25 11.40 - 12.60 14.25 - 15.75 4.85 - 5.25 11.40 - 12.60 14.25 - 15.75 4.85 - 5.25 11.40 - 12.60 14.25 - 15.75 3.20 - 3.47 4.85 - 5.25 11.40 - 12.60 14.25 - 15.75 11.40 - 12.60 14											14.25 - 15.75	
PROTECTION	OVERCURRENT PROTECTION	Works	over 10	5% of r	ating an	d recov	ers auto	matical	ly						
	INPUT-OUTPUT	AC500	V 1minı	ute, Cut	off curre	ent = 10	mA, DC	500V 5	0MΩ m	in (20±	15℃)				
ISOLATION	INPUT-CASE	AC500	V 1minı	ute, Cut	off curre	ent = 10	mA, DC	500V 5	0MΩ m	in (20±	15℃)				
	OUTPUT-CASE						mA, DC			, -	,				
	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to	+71℃,2	20 - 95%	6RH (N	on conc	lensing)	(Refer	to DER	ating (CURVE)	, 3,000r	m (10,00	00feet)	max
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to	+85℃,2	20 - 95%	6RH (N	on conc	lensing)	, 9,000r	n (30,00	Ofeet) r	max				
LITTINONIMENT	VIBRATION	10 - 55	Hz, 98.	0m/s ² (10G), 3r	minutes	period,	60minu	tes eac	h along	X, Y ar	nd Z axis	S		
	IMPACT	490.3m	490.3m/s² (50G), 11ms, once each X, Y and Z axis												
SAFETY	AGENCY APPROVALS	UL609	50-1, El	V60950	-1, CSA	C22.2	No.6095	0-1 Co	mplies v	vith IEC	60950-	1			
OTHERS	CASE SIZE/WEIGHT	44.5 X	7 X 28m	m (W X	H×D)/	25g ma	ax								
	COOLING METHOD	Conve	ction												

^{*1} Rated input. 5V, 12V, 24V or 48V DC, lo=100%*2 Measured by 20MHz oscilloscope.

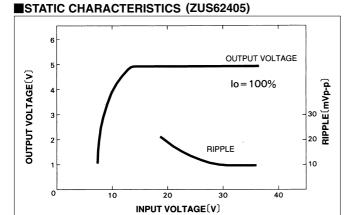
Series/Parallel operation with other model is not possible.

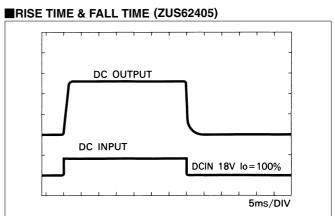
^{*3} The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

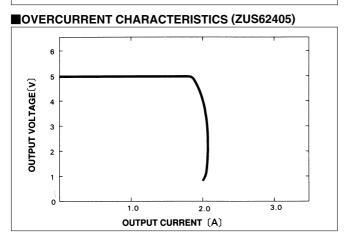


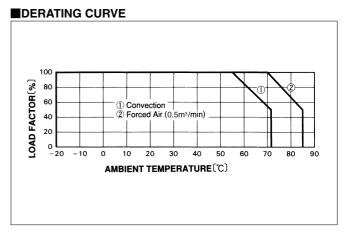


Performance data











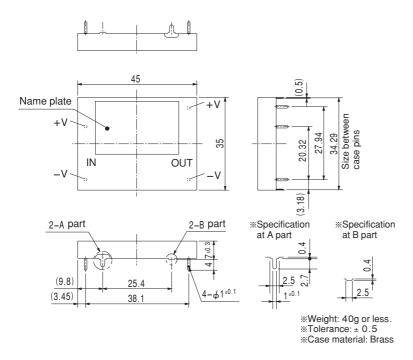
- ①Series name ②Single output 3 Output wattage
- (4) Input voltage ⑤Output voltage

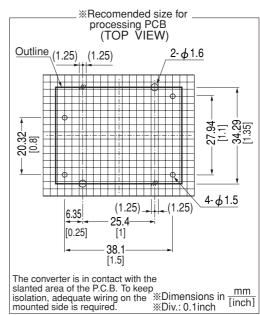
MODEL		ZUS10053R3	ZUS100505	ZUS100512	ZUS100515	ZUS101205	ZUS101212	ZUS101215	ZUS102405	ZUS102412	ZUS102415	ZUS10483R3	ZUS104805	ZUS104812	ZUS104815
MAX OUTPUT WATTAGE[W]		5.28	8.0	8.4	9.0	10.0	10.8	10.5	10.0	10.8	10.5	6.6	10.0	10.8	10.5
DC OUTPUT	VOLTAGE[V]	3.3	5	12	15	5	12	15	5	12	15	3.3	5	12	15
CURRENT[A]		1.6	1.6	0.7	0.6	2.0	0.9	0.7	2.0	0.9	0.7	2.0	2.0	0.9	0.7

SPECIFICATIONS

	MODEL	ZUS10053R3	ZUS100505	ZUS100512	ZUS100515	ZUS101205	ZUS101212	ZUS101215	ZUS102405	ZUS102412	ZUS102415	ZUS10483R3	ZUS104805	ZUS104812	ZUS104815
	VOLTAGE[V]	DC4.5	- 9			DC9 -	18		DC18 -	- 36		DC36 -	- 72		
INPUT	CURRENT[A] *1	1.48typ	2.14typ	2.24typ	2.40typ	1.05typ	1.10typ	1.07typ	0.53typ	0.55typ	0.54typ	0.18typ	0.27typ	0.28typ	0.27typ
	EFFICIENCY[%] *1	72typ	75typ	75typ	75typ	80typ	82typ	82typ	80typ	82typ	82typ	75typ	80typ	82typ	82typ
	VOLTAGE[V]	3.3	5	12	15	5	12	15	5	12	15	3.3	5	12	15
	CURRENT[A]	1.6	1.6	0.7	0.6	2.0	0.9	0.7	2.0	0.9	0.7	2.0	2.0	0.9	0.7
	LINE REGULATION[mV]	20max	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	20max	48max	60max
	LOAD REGULATION[mV]	40max	40max	100max	120max	40max	100max	120max	40max	100max	120max	40max	40max	100max	120max
-	RIPPLE[mVp-p] *2	80max	80max	120max	120max	80max	120max	120max	80max	120max	120max	80max	80max	120max	120max
OUTPUT	RIPPLE NOISE[mVp-p] *2	120max	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	120max	150max	150max
	TEMPERATURE REGULATION[mV] -20 to +55℃	50max	50max	150max	180max	50max	150max	180max	50max	150max	180max	50max	50max	150max	180max
	DRIFT[mV] *3	20max	20max	48max	60max	20max	48max	60max	20max	48max	60max	20max	20max	48max	60max
	START-UP TIME[ms]	20max	(Minim	um inpu	t, lo=10	0%)									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed													
	OUTPUT VOLTAGE SETTING[V]	3.20 - 3.47	-											14.25 - 15.75	
PROTECTION	OVERCURRENT PROTECTION	Works	over 10	5% of r	ating an	d recov	ers auto	matical	ly						
	INPUT-OUTPUT	AC500	V 1minu	ite, Cut	off curre	ent = 10	mA, DC	500V 5	0MΩ m	in (20±	:15℃)				
ISOLATION	INPUT-CASE	AC500	V 1minı	ite, Cut	off curre	ent = 10	mA, DC	500V 5	0MΩ m	in (20±	:15℃)				
	OUTPUT-CASE	_					mA, DC								
	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to	+71℃,2	20 - 95%	6RH (N	on cond	lensing)	(Refer	to DER	ating (CURVE)	, 3,000r	n (10,00	00feet) ı	max
ENVIRONMENT	STORAGE TEMP.;HUMID.AND ALTITUDE	-40 to	+85℃,2	20 - 95%	6RH (N	on cond	lensing)	, 9,000r	n (30,00	Ofeet) r	nax				
LIVIIIONIILIVI	VIBRATION	10 - 55	Hz, 98.	0m/s² (10G), 3r	minutes	period,	60minu	tes eac	h along	X, Y an	id Z axis	3		
	IMPACT	490.3m	490.3m/s² (50G), 11ms, once each X, Y and Z axis												
SAFETY	AGENCY APPROVALS	UL609	50-1, El	N60950	-1, CSA	C22.2	No.6095	0-1 Co	mplies v	vith IEC	60950-	1			
OTHERS	CASE SIZE/WEIGHT	45×7	≺35mm	(W×H	×D) / 4	0g max									
	COOLING METHOD	Conve	950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1 7 x 35mm (W x H x D) / 40g max												

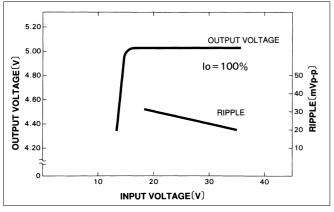
- *1 Rated input. 5V, 12V, 24V or 48V DC, lo=100%*2 Measured by 20MHz oscilloscope.
- *3 The drift is a change at 25°C of ambient temperature and 30 minutes 8 hours after the input voltage applied at rated input/output.
- Series/Parallel operation with other model is not possible.



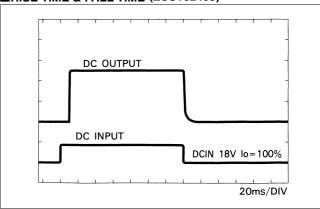


Performance data

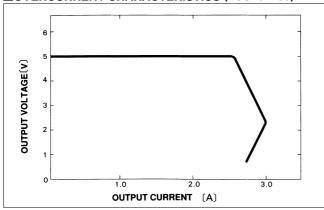
■STATIC CHARACTERISTICS (ZUS102405)



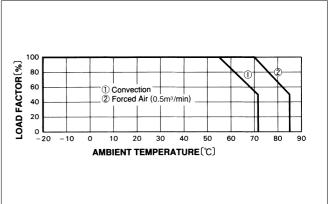




■OVERCURRENT CHARACTERISTICS (ZUS102405)



■DERATING CURVE



4





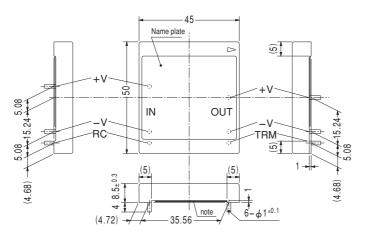
- ①Series name ②Single output
- 3 Output wattage
- (4) Input voltage
- ⑤Output voltage

MODEL		ZUS15053R3	ZUS150505	ZUS150512	ZUS151205	ZUS151212	ZUS152405	ZUS152412	ZUS15483R3	ZUS154805	ZUS154812
MAX OUTPUT WATTAGE[W]		6.6	10.0	12.0	12.0	15.6	12.0	15.6	7.92	12.0	15.6
DC OUTPUT	VOLTAGE[V]	3.3	5	12	5	12	5	12	3.3	5	12
CURRENTIA		2.0	2.0	1.0	2.4	1.3	2.4	1.3	2.4	2.4	1.3

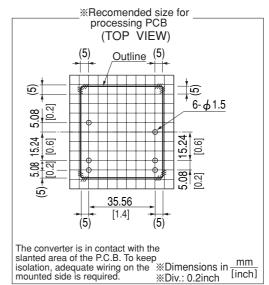
SPECIFICATIONS

	MODEL	ZUS15053R3	ZUS150505	ZUS150512	ZUS151205	ZUS151212	ZUS152405	ZUS152412	ZUS15483R3	ZUS154805	ZUS154812	
	VOLTAGE[V]	DC4.5 - 9			DC9 - 18		DC18 - 36		DC36 - 75			
INPUT	CURRENT[A] *1	1.83typ	2.50typ	2.96typ	1.25typ	1.57typ	0.63typ	0.78typ	0.21typ	0.31typ	0.39typ	
	EFFICIENCY[%] *1	72typ	80typ	81typ	80typ	83typ	80typ	83typ	78typ	80typ	83typ	
	VOLTAGE[V]	3.3	5	12	5	12	5	12	3.3	5	12	
	CURRENT[A]	2.0	2.0	1.0	2.4	1.3	2.4	1.3	2.4	2.4	1.3	
	LINE REGULATION[mV]	20max	20max	48max	20max	48max	20max	48max	20max	20max	48max	
	LOAD REGULATION[mV]	40max	40max	100max	40max	100max	40max	100max	40max	40max	100max	
	RIPPLE[mVp-p] *2	80max	80max	120max	80max	120max	80max	120max	80max	80max	120max	
ОИТРИТ	RIPPLE NOISE[mVp-p] *2	120max	120max	150max	120max	150max	120max	150max	120max	120max	150max	
001701	TEMPERATURE REGULATION[mV] 0 to +55℃	50max	50max	150max	50max	150max	50max	150max	50max	50max	150max	
	DRIFT[mV] *3	20max	20max	48max	20max	48max	20max	48max	20max	20max	48max	
	START-UP TIME[ms]	100max (Minimum input, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Internally fixed (TRM pin open), adjustable by external VR										
		3.20 - 3.47							3.20 - 3.47			
	OUTPUT VOLTAGE SETTING[V]	3.20 - 3.47	4.85 - 5.25	11.4 - 12.6	4.85 - 5.25	11.4 - 12.6	4.85 - 5.25	11.4 - 12.6	3.20 - 3.47	4.85 - 5.25	11.4 - 12.6	
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically										
PROTECTION CIRCUIT	OVERVOLTAGE PROTECTION	4.0 - 5.25V Works at 115 - 140% of rating 4.0 - 5.25V Works at 115 -										
	REMOTE ON/OFF	Between RC and -side of input:short - 1.2V \cdot · · · output ON, 2.4V - 5.5V(or open) · · · · output OFF, Compatible to TTL										
	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)										
ISOLATION	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)										
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 C)										
	OPERATING TEMP.,HUMID.AND ALTITUDE	-20 to +71°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max										
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max										
	VIBRATION	10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis										
	IMPACT	490.3m/s² (50G), 11ms, once each X, Y and Z axis										
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1										
OTHERS	CASE SIZE/WEIGHT	45×8.5×50mm (W×H×D) / 55g max										
UITENS	COOLING METHOD	Convectio	n									
	-+ FV 10V 04V 10V DC I- 1000											

- *1 Rated input. 5V, 12V, 24V or 48V DC, lo=100%*2 Measured by 20MHz oscilloscope.
- *3 The drift is a change at 25°C of ambient temperature and 30 minutes 8 hours after the input voltage applied at rated input/output.
- Series/Parallel operation with other model is not possible.

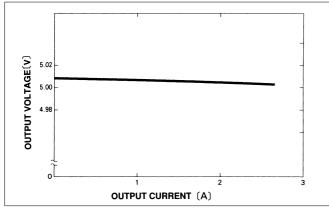


note) Internal parts *Weight: 55g or less.
*Tolerance: ± 0.5 ***Case material: Aluminum**

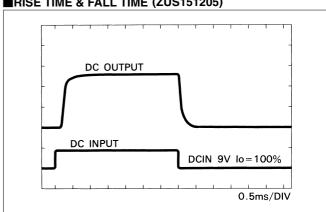


Performance data

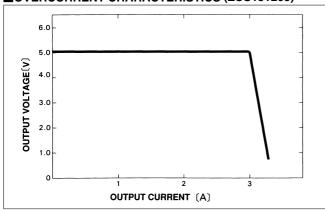
■STATIC CHARACTERISTICS (ZUS151205)



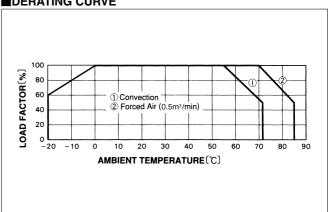
■RISE TIME & FALL TIME (ZUS151205)



■OVERCURRENT CHARACTERISTICS (ZUS151205)



DERATING CURVE





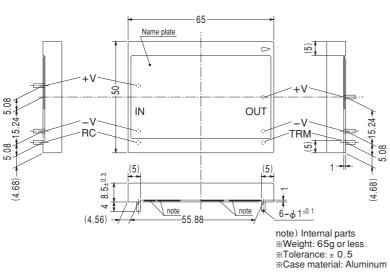
- ①Series name ②Single output
- 3 Output wattage
- (4) Input voltage
- (5) Output voltage

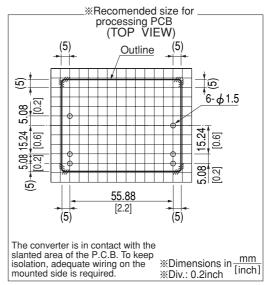
MODEL		ZUS25053R3	ZUS250505	ZUS250512	ZUS251205	ZUS251212	ZUS252405	ZUS252412	ZUS25483R3	ZUS254805	ZUS254812
MAX OUTPUT WATTAGE[W]		13.2	16.0	20.4	20.0	25.2	20.0	25.2	13.2	20.0	25.2
DO OUTDUT	VOLTAGE[V]	3.3	5	12	5	12	5	12	3.3	5	12
DC OUTPUT	CURRENT[A]	4.0	3.2	1.7	4.0	2.1	4.0	2.1	4.0	4.0	2.1

SPECIFICATIONS

	MODEL	ZUS25053R3	ZUS250505	ZUS250512	ZUS251205	ZUS251212	ZUS252405	ZUS252412	ZUS25483R3	ZUS254805	ZUS254812	
	VOLTAGE[V]	DC4.5 - 9			DC9 - 18		DC18 - 36		DC36 - 75			
INPUT	CURRENT[A] *1	3.66typ	4.00typ	4.98typ	2.03typ	2.47typ	1.02typ	1.23typ	0.35typ	0.51typ	0.62typ	
	EFFICIENCY[%] *1	72typ	80typ	82typ	82typ	85typ	82typ	85typ	78typ	82typ	85typ	
	VOLTAGE[V]	3.3	5	12	5	12	5	12	3.3	5	12	
	CURRENT[A]	4.0	3.2	1.7	4.0	2.1	4.0	2.1	4.0	4.0	2.1	
	LINE REGULATION[mV]	20max	20max	48max	20max	48max	20max	48max	20max	20max	48max	
	LOAD REGULATION[mV]	40max	40max	100max	40max	100max	40max	100max	40max	40max	100max	
	RIPPLE[mVp-p] *2	80max	80max	120max	80max	120max	80max	120max	80max	80max	120max	
OUTPUT	RIPPLE NOISE[mVp-p] *2	120max	120max	150max	120max	150max	120max	150max	120max	120max	150max	
COIPOI	TEMPERATURE REGULATION[mV] 0 to +55℃	50max	50max	150max	50max	150max	50max	150max	50max	50max	150max	
	DRIFT[mV] *3	20max	20max	48max	20max	48max	20max	48max	20max	20max	48max	
	START-UP TIME[ms]	100max (Minimum input, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Internally fixed (TRM pin open), adjustable by external VR										
		3.20 - 3.47	±5%						3.20 - 3.47	±5%		
	OUTPUT VOLTAGE SETTING[V]	3.20 - 3.47	4.85 - 5.25	11.4 - 12.6	4.85 - 5.25	11.4 - 12.6	4.85 - 5.25	11.4 - 12.6	3.20 - 3.47	4.85 - 5.25	11.4 - 12.6	
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically										
PROTECTION	OVERVOLTAGE PROTECTION	4.0 - 5.25V Works at 115 - 140% of rating							4.0 - 5.25V Works at 115 - 140% of rating			
	REMOTE ON/OFF	Between RC and -side of input:short - 1.2V · · · output ON, 2.4V - 5.5V(or open) · · · output OFF, Compatible to T										
	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)										
ISOLATION	INPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)										
	OUTPUT-CASE	AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 Υ)										
	OPERATING TEMP.;HUMID.AND ALTITUDE	-20 to +71°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max										
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85	°C, 20 - 95	5%RH (Noi	n condensi	ng), 9,000r	n (30,000fe	eet) max				
ENVIRONMENT	VIBRATION	10 - 55Hz, 98.0m/s² (10G), 3minutes period, 60minutes each along X, Y and Z axis										
	IMPACT	490.3m/s ² (50G), 11ms, once each X, Y and Z axis										
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with IEC60950-1										
OTHERS	CASE SIZE/WEIGHT	65 x 8.5 x 50mm (W x H x D) / 65g max										
OTHERS	COOLING METHOD	Convectio	n									

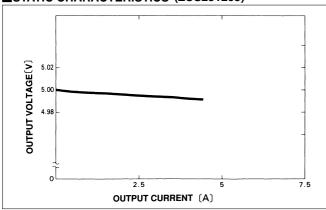
- *1 Rated input. 5V, 12V, 24V or 48V DC, lo=100%*2 Measured by 20MHz oscilloscope.
- *3 The drift is a change at 25°C of ambient temperature and 30 minutes 8 hours after the input voltage applied at rated input/output.
- Series/Parallel operation with other model is not possible.



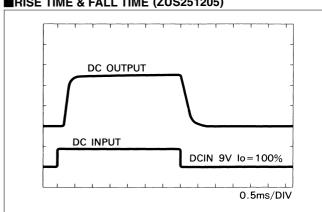


Performance data

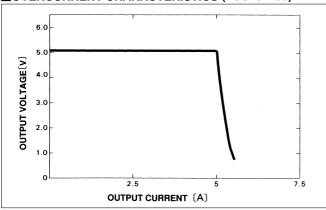
■STATIC CHARACTERISTICS (ZUS251205)







■OVERCURRENT CHARACTERISTICS (ZUS251205)



DERATING CURVE

